

according to Regulation (EC) No 1907/2006

# **Unyvero T1 Sample Pre-Treatment Tool**

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# SECTION 1: Identification of the substance/mixture and of the company/undertaking

## 1.1. Product identifier

Unyvero T1 Sample Pre-Treatment Tool

## 1.2. Relevant identified uses of the substance or mixture and uses advised against

### Use of the substance/mixture

Use as laboratory reagent.

### Uses advised against

not known

### 1.3. Details of the supplier of the safety data sheet

Company name: Curetis GmbH
Street: Max-Eyth-Str. 42
Place: D 71088 Holzgerlingen

Telephone: +49-(0)7031 - 49195-55 Telefax: +49-(0)7031 - 4919519

Responsible Department: Dr. Gans-Eichler e-mail: info@tge-consult.de

Chemieberatung GmbH Tel.: +49 (0)251/924520-60

Raesfeldstr. 22 48149 Muenster

1.4. Emergency telephone

Poison Information Center Mainz, Germany, Tel: +49(0)6131/19240

number:

# **SECTION 2: Hazards identification**

# 2.1. Classification of the substance or mixture

## Regulation (EC) No. 1272/2008

Hazard categories:

Skin corrosion/irritation: Skin Irrit. 2

Serious eye damage/eye irritation: Eye Irrit. 2

Hazard Statements: Causes skin irritation. Causes serious eye irritation.

## 2.2. Label elements

# Regulation (EC) No. 1272/2008

Signal word: Warning

**Pictograms:** 



### **Hazard statements**

H315 Causes skin irritation. H319 Causes serious eye irritation.

## **Precautionary statements**

P280 Wear Personal protection equipment.

P337+P313 If eye irritation persists: Get medical advice/attention.

## 2.3. Other hazards

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

# **SECTION 3: Composition/information on ingredients**

## 3.2. Mixtures



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#### **Hazardous components**

CAS No	Chemical name				
	EC No	Index No	REACH No		
	Classification according to Regulation (EC) No. 1272/2008 [CLP]				
50-01-1	guanadine hydrochloride, guanidinium chloride			15 - < 20 %	
	200-002-3	607-148-00-0			
	Acute Tox. 4, Eye Irrit. 2, Skin Irrit. 2; H302 H319 H315				
7601-54-9	Trisodium orthophosphate				
	231-509-8				
	Skin Irrit. 2, Eye Irrit. 2, STOT SE 3; H315 H319 H335				

Full text of H and EUH statements: see section 16.

### **Further Information**

Product does not contain listed SVHC substances > 0,1 % according to Regulation (EC) No. 1907/2006 Article 59 (REACH)

# **SECTION 4: First aid measures**

## 4.1. Description of first aid measures

#### **General information**

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

### After inhalation

In case of accident by inhalation: remove casualty to fresh air and keep at rest. In case of respiratory tract irritation, consult a physician.

### After contact with skin

No special measures are necessary. In case of skin irritation, seek medical treatment.

## After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water. In case of troubles or persistent symptoms, consult an ophthalmologist.

#### After ingestion

Rinse mouth thoroughly with water. Let water be drunken in little sips (dilution effect). Do NOT induce vomiting.

#### 4.2. Most important symptoms and effects, both acute and delayed

No information available.

# 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

# **SECTION 5: Firefighting measures**

## 5.1. Extinguishing media

### Suitable extinguishing media

Carbon dioxide (CO2). Dry extinguishing powder. alcohol resistant foam. Atomized water.

### Unsuitable extinguishing media

High power water jet.

## 5.2. Special hazards arising from the substance or mixture

Can be released in case of fire: Carbon monoxide. Carbon dioxide (CO2). Nitrogen oxides (NOx). Hydrogen chloride (HCI).

## 5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing.

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### **Additional information**

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

Co-ordinate fire-fighting measures to the fire surroundings.

### **SECTION 6: Accidental release measures**

## 6.1. Personal precautions, protective equipment and emergency procedures

See protective measures under point 7 and 8.

#### 6.2. Environmental precautions

Discharge into the environment must be avoided.

### 6.3. Methods and material for containment and cleaning up

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).

Treat the recovered material as prescribed in the section on waste disposal.

Clean contaminated objects and areas thoroughly observing environmental regulations.

## 6.4. Reference to other sections

See protective measures under point 7 and 8.

## **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

### Advice on safe handling

Wear suitable protective clothing. See section 8.

Conditions to avoid: Generation/formation of aerosols

The usual precautions for handling chemicals should be considered.

# Advice on protection against fire and explosion

Usual measures for fire prevention.

# Further information on handling

General protection and hygiene measures: See section 8.

# 7.2. Conditions for safe storage, including any incompatibilities

## Requirements for storage rooms and vessels

Keep container tightly closed in a cool, well-ventilated place.

## Advice on storage compatibility

Do not store together with: Explosives. Oxidizing solids. Oxidizing liquids. Radioactive substances. Infectious substances.

#### Further information on storage conditions

Keep the packing dry and well sealed to prevent contamination and absorbtion of humidity.

Protect against: Light. UV-radiation/sunlight. heat. moisture.

## 7.3. Specific end use(s)

refer to section 1.

# **SECTION 8: Exposure controls/personal protection**

# 8.1. Control parameters

# 8.2. Exposure controls

## Appropriate engineering controls

No special measures are necessary.

## Protective and hygiene measures

Always close containers tightly after the removal of product. When using do not eat, drink, smoke, sniff. Wash hands before breaks and after work.



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## Eye/face protection

Wear safety glasses; chemical goggles (if splashing is possible).

### Hand protection

In case of prolonged or frequently repeated skin contact: Wear suitable gloves.

### Skin protection

Suitable protective clothing: Lab apron.

Minimum standard for preventive measures while handling with working materials are specified in the TRGS 500.

## Respiratory protection

With correct and proper use, and under normal conditions, breathing protection is not required.

## **Environmental exposure controls**

No special precautionary measures are necessary.

# **SECTION 9: Physical and chemical properties**

## 9.1. Information on basic physical and chemical properties

Physical state: liquid
Colour: colourless
Odour: odourless

**Test method** 

pH-Value: not determined

Changes in the physical state

Melting point:

Initial boiling point and boiling range:

Sublimation point:

Softening point:

Pour point:

Flash point:

Sustaining combustion:

No data available

**Explosive properties** 

none

Lower explosion limits:

Upper explosion limits:

Ignition temperature:

not determined

not determined

**Oxidizing properties** 

none

Vapour pressure: not determined Vapour pressure: not determined Density: not determined Water solubility: not determined

Solubility in other solvents

not determined

Viscosity / dynamic: not determined

(at 20 °C)

Viscosity / kinematic: not determined
Flow time: not determined



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Vapour density: not determined Solvent content: 0%

9.2. Other information

Solid content: not determined

# **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

No information available.

### 10.2. Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

#### 10.3. Possibility of hazardous reactions

No information available.

## 10.4. Conditions to avoid

Protect against: UV-radiation/sunlight. heat.

## 10.5. Incompatible materials

Materials to avoid: Oxidizing agents. Strong acid. strong alkalis.

## 10.6. Hazardous decomposition products

Can be released in case of fire: Carbon monoxide. Carbon dioxide (CO2). Nitrogen oxides (NOx). Hydrogen chloride (HCI).

# **SECTION 11: Toxicological information**

## 11.1. Information on toxicological effects

### Toxicocinetics, metabolism and distribution

No data available.

## **Acute toxicity**

Based on available data, the classification criteria are not met.

CAS No	Chemical name				
	Exposure routes	Method	Dose	Species	Source
50-01-1	guanadine hydrochloride, guanidinium chloride				
	oral	LD50	475 mg/kg	Rat	
	inhalative (4 h) vapour	LC50	5,3 mg/l	Rat	

# Irritation and corrosivity

Causes skin irritation.

Causes serious eye irritation.

#### Sensitising effects

Based on available data, the classification criteria are not met.

### STOT-single exposure

Based on available data, the classification criteria are not met.

### Severe effects after repeated or prolonged exposure

Based on available data, the classification criteria are not met. guanadine hydrochloride, guanidinium chloride (50-01-1):

No evidence for: Carcinogenicity

No evidence for: In-vitro mutagenicity (Ames-Test)

## Carcinogenic/mutagenic/toxic effects for reproduction



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Based on available data, the classification criteria are not met.

No evidence for: In-vitro mutagenicity No evidence for: Carcinogenicity

The statement is derived from the properties of the components.

#### Aspiration hazard

Based on available data, the classification criteria are not met.

#### Specific effects in experiment on an animal

No data available.

## **SECTION 12: Ecological information**

### 12.1. Toxicity

CAS No	Chemical name				
	Aquatic toxicity	Method	Dose	[h]   [d] Species	Source
50-01-1	guanadine hydrochloride, guanidinium chloride				
	Acute fish toxicity	LC50	1758 mg/l	96 h Leucisus idus	

#### 12.2. Persistence and degradability

CAS No	Chemical name				
	Method Value d Source				
	Evaluation				
50-01-1	guanadine hydrochloride, guanidinium chloride				
	OECD 301C / ISO 9408 / EEC 92/69 annex V, C.4-F 0 56 ECHA Dosier		ECHA Dosier		
	Not easily bio-degradable (according to OECD-criteria).				

### 12.3. Bioaccumulative potential

No indication of bioaccumulation potential.

### Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
50-01-1	guanadine hydrochloride, guanidinium chloride	

## 12.4. Mobility in soil

No data available.

### 12.5. Results of PBT and vPvB assessment

The components in this formulation do not meet the criteria for classification as PBT or vPvB.

# 12.6. Other adverse effects

No data available.

### **Further information**

Do not allow to enter into surface water or drains.

# **SECTION 13: Disposal considerations**

# 13.1. Waste treatment methods

# Advice on disposal

Observe in addition any national regulations! Consult the local waste disposal expert about waste disposal.

Non-contaminated packages may be recycled.

According to EAKV, allocation of waste identity numbers/waste descriptions must be carried out in a specific way for every industry and process.

Control report for waste code/ waste marking according to EAKV:

## Waste disposal number of waste from residues/unused products

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160506 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded

chemicals; laboratory chemicals, consisting of or containing hazardous substances, including mixtures of

laboratory chemicals

Classified as hazardous waste.

Waste disposal number of used product

160506 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded

chemicals; laboratory chemicals, consisting of or containing hazardous substances, including mixtures of

laboratory chemicals

Classified as hazardous waste.

Waste disposal number of contaminated packaging

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE

CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by hazardous substances

Classified as hazardous waste.

Contaminated packaging

Handle contaminated packages in the same way as the substance itself.

## **SECTION 14: Transport information**

Land transport (ADR/RID)

14.2. UN proper shipping name: Not restricted

Other applicable information (land transport)

Not restricted

Inland waterways transport (ADN)

14.2. UN proper shipping name: Not restricted

Other applicable information (inland waterways transport)

Not restricted

Marine transport (IMDG)

14.2. UN proper shipping name: Not restricted

Other applicable information (marine transport)

Not restricted

Air transport (ICAO)

14.2. UN proper shipping name: Not restricted

Other applicable information (air transport)

Not restricted

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

14.6. Special precautions for user

refer to chapter 6-8

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

not relevant

# **SECTION 15: Regulatory information**

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

## **EU** regulatory information

2010/75/EU (VOC): 0% (calculated.) 2004/42/EC (VOC): 0g/L (calculated.)



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Information according to 2012/18/EU

Not subject to 2012/18/EU (SEVESO III)

(SEVESO III):

Additional information:

#### Additional information

This mixture is classified as hazardous according to regulation (EC) No. 1272/2008 [CLP].

REACH 1907/2006 Appendix XVII: 3

## **National regulatory information**

Employment restrictions: Observe restrictions to employment for juvenils according to the 'juvenile work

protection guideline' (94/33/EC).

Water contaminating class (D): 1 - slightly water contaminating

#### 15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

### **SECTION 16: Other information**

#### Changes

Rev. 1.0 Initial release 22.01.2014

Rev. 2.0 Changes in chapter: 2, 3,5,7,9,10,11,12,13,14,15,16: 18.01.2016

## Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route

CAS Chemical Abstracts Service DNEL: Derived No Effect Level

IARC: INTERNATIONAL AGENCY FOR RESEARCH ON CANCER

International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organization

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)

GHS: Globally Harmonized System of Classification and Labelling of Chemicals GefStoffV: Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany)

LOAEL: Lowest observed adverse effect level

LOAEC: Lowest observed adverse effect concentration

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

NOAEL: No observed adverse effect level NOAEC: No observed adverse effect level

NTP: National Toxicology Program

N/A: not applicable

OSHA: Concerning the International Transport of Dangerous Goods by Rail)

PNEC: predicted no effect concentration PBT: Persistent bioaccumulative toxic

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de

fer (Regulations Concerning the International Transport of Dangerous Goods by Rail )

SARA: Superfund Amendments and Reauthorization Act

SVHC: substance of very high concern TRGS Technische Regeln für Gefahrstoffe TSCA: Toxic Substances Control Act VOC: Volatile Organic Compounds

VwVwS: Verwaltungsvorschrift wassergefährdender Stoffe

WGK: Wassergefährdungsklasse

# Relevant H and EUH statements (number and full text)

Harmful if swallowed. H302



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H315 Causes skin irritation.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.

#### **Further Information**

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)